



Mouse Anti-Human CTLA-4 monoclonal antibody, clone JID115 (CABT-L2927)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human CTLA-4
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID115
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Tonsil, Lymph Node, Colon, Thymus
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Cytotoxic T-lymphocyte-associated protein 4 (CTLA-4) is a receptor on T Helper cells that functions as an immune checkpoint and downregulator of immune responses. Mutations in CTLA-4 are associated with insulin-dependent diabetes mellitus, Hashimoto's thyroiditis, Graves' disease, systemic lupus erythematosus (SLE), celiac disease, primary biliary cirrhosis, thyroid-associated orbitopathy, multiple sclerosis, and other autoimmune diseases. The spliced variant of CTLA-4 in SLE is present in the patient's serum. Haploinsufficiency of CTLA-4 causes the immune system disorder known as CTLA-4 deficiency or CHAI disease (CTLA4 haploinsufficiency with autoimmune infiltration).
Keywords	CTLA4;cytotoxic T-lymphocyte-associated protein 4;CD;GSE;GRD4;ALPS5;CD152;CTLA-4;IDDM12;CELIAC3;cytotoxic T-lymphocyte protein 4;CD152 isoform;celiac disease 3;insulin-dependent diabetes mellitus 12;cytotoxic T-lymphocyte-associated serine esterase-4;cytotoxic T lymphocyte associated antigen 4 short spliced form;ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4;

GENE INFORMATION

Gene Name	CTLA4 cytotoxic T-lymphocyte-associated protein 4 [Homo sapiens (human)]
Official Symbol	CTLA4
Synonyms	CTLA4; cytotoxic T-lymphocyte-associated protein 4; CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3; cytotoxic T-lymphocyte protein 4; CD152 isoform; celiac disease 3; insulin-dependent diabetes mellitus 12; cytotoxic T-lymphocyte-associated serine esterase-4; cytotoxic T lymphocyte associated antigen 4 short spliced form; ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4;
Entrez Gene ID	1493
Protein Refseq	NP_001032720
UniProt ID	P16410
Chromosome Location	2q33
Pathway	Adaptive Immune System; Autoimmune thyroid disease; CTLA4 inhibitory signaling;

Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cell adhesion molecules (CAMs); Costimulation by the CD28 family; Immune System; Rheumatoid arthritis;

Function	protein binding;
-----------------	------------------
